

#2

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/902,540

DATE: 08/02/2001

TIME: 09:59:06

Input Set : F:\Pa_00359.rpt

Output Set: N:\CRF3\08022001\I902540.raw

ENTERED

1 <110> APPLICANT: Goldman, Barry S.
 2 Hinkle, Gregory J.
 3 Slater, Steven C.
 4 Wiegand, Roger C.
 6 <120> TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
 8 <130> FILE REFERENCE: 38-10(15849)B
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/902,540
 C--> 10 <141> CURRENT FILING DATE: 2001-07-10
 10 <150> PRIOR APPLICATION NUMBER: 60/217,883
 12 <151> PRIOR FILING DATE: 2000-07-10
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 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 527
 18 <212> TYPE: DNA
 19 <213> ORGANISM: Myxococcus xanthus
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 27 tgcggctcat catgaccatc agggatgacg gctccgtcgc cgagggtctg cccaccgagc 180
 29 cgggtgggcaa cggcttcgac gaggcggcca tcgcgggcgt gcgccagttc cgtttctcgc 240
 31 ccgcccaggt cgacggcgtg cccgcgccgg tgcagggtga gtatgtctac cacttcaccc 300
 33 tcaccgcgcc ggagccggag gcgggcgcc aggcctgtga ggccgagcag cccaaggcca 360
 35 cgctcaccgg tcagctcatc tcccgcggaa gccgttctcg cgtgcccac gccaccgtga 420
 37 gctgcggcga ccacgcggac gcgcccagag tgatgtccga cgaggacggc cgcttcacgc 480
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 43 <211> LENGTH: 505
 44 <212> TYPE: DNA
 45 <213> ORGANISM: Myxococcus xanthus
 47 <400> SEQUENCE: 2
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 51 agcccatctt ggggagttag ttcagttggt tagaacgccg gcctgtcacg ccggaggcca 120
 53 cgggttcaag tcccgactc ctcgctagaa agcccagcaa tcctccgggg ttgctgggct 180
 55 tttctttttc ctctgtcccc ctatgtggcc tcagtgtgcc gctccggcac cgttggccgg 240
 57 agcggcgtgg cgctggacgt cgcgggcaag gcggcgcat cctccgcgga cctgcgcagt 300
 59 cgacgtgctc gtggacgggg tccccaccgg gccccaggac gtgatgggtcc agtgcgcccc 360
 61 gaaggccgag gccctgcagg cgcacctgaa gcggggcgac gtggagctcc ggttccagga 420
 63 gggccagtgg aaggcctacg acgcggcgaa agcccacctc tccaaggggc gcaagagcga 480
 65 ggcgctcgcg cagctcaacg attgc 505
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 69 <211> LENGTH: 608
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 71 <213> ORGANISM: Myxococcus xanthus
 73 <220> FEATURE:
 74 <221> NAME/KEY: unsure
 75 <222> LOCATION: (1)..(608)✓
 76 <223> OTHER INFORMATION: unsure at all n locations

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78 <400> SEQUENCE: 3

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84 tcctggagcg tgccctgccc gcgcgtggc tggccgacgc cgcgctgcgc acccgcgccc 180
86 tgcgccgctt cctggaagca gggcccgcg tccgggagat ggggctgatg taccagttgc 240
88 tggccctgct ccggcgacg cggccggatg gacgcttcgt ccatccgctg accgtcgtcg 300
90 acctgcccgc cacgggacac gcgctggcgc tggccgcctt gccccagcgc gtgctgtccc 360
92 tgatgcccgg agggcccatc ggacgcgacg tgcgggaggg gctcgacttc ctccaggatg 420
94 cggcgcgcac cgcgatggc ctcgccagcc tgccggagcc gctgcccgtc agcgaggcgc 480
96 tcaccgtggc cgcgagctg cgcggctgg agctgccgt gtccgcggcc gtcctcaacc 540
98 ggatgccgga ggacccttc acgcccagat cccgcgccg cctgcaccgg atgctcgccg 600

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W--> 100 **ngcacgga**

608

103 <210> SEQ ID NO: 4

104 <211> LENGTH: 720

105 <212> TYPE: DNA

106 <213> ORGANISM: Myxococcus xanthus

108 <400> SEQUENCE: 4

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112 atcgcgagct acttcttgtg ctggaatttt cctcagtac tccattactt tttgcttttc 120
114 ttctaaaatg ttttctgagc aaattcgttt tggaaagtgc atggctgtca tcatgagaac 180
116 ctgcagcata tgattttgaa tcatgtcgcg tatggctccc gtatgatcat aataccctgc 240
118 acgattttca acaccgactg tttcacttgc tgtaatttgg acattcgcaa tgtgtttgtt 300
120 attccacaat gattgcagta cagggttcgt aaattcaagc gcttctaaat tttgcacat 360
122 cggtttacct aaataatgat caattcgata aatttcttct tctttaaacg tactgcttag 420
124 cttttcatta agctttcttg cagaagcaag atcatgtcca aatggctttt caatcataag 480
126 acgcttcacg ccgctcgctt ggtctaagcc gctttttttt atatgcagcg caattacatc 540
128 gaagtattct ggtgctacgg acaataaaaa caaacgattt cctttacttc tatgagttgt 600
130 ttcttgctca ttcacaagct ttagcagctg tttgtaatct tctgttttgc ttgcgtctac 660
132 tgcttggtaa tgaaacagcg acaaaaaatc ttctctgtta ctttccattt tccgtcttga 720

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135 <210> SEQ ID NO: 5

136 <211> LENGTH: 539

137 <212> TYPE: DNA

138 <213> ORGANISM: Myxococcus xanthus

140 <400> SEQUENCE: 5

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142 tgctctaagg ctgctgatcg tggaccgga gtcgcgcgtg ccatgtgcgc cgggtcaggt 60
144 gggcgaaaac tgggtctccg gtggaagcgt cgcgcagggc tactggcgca agcccagga 120
146 cagcgtggac atcttccagg cgggtccggt gggggctgag gccggtccga agtacctgcg 180
148 caccggcgac ctggggctgc tgctggagga cgggcagctc atcgtcaccg gccggcgcaa 240
150 ggacctcatc atcctgcggg gccggaacct gtatccgcag gacgtggaga gcatcgtgga 300
152 gcgggcccac cgcaaggtgc gtccaggctg catcgcgcg ttcgccatcg agactccaga 360
154 gggcgaggcc ctggcggtgg tcgcggaggt gtcgcgagac gtggcgaggg gcgcggaccc 420
156 ggccgcgtg ggcgcgtgg cggacacgct gcggaaggcc attgtcgcg agcttcaggt 480
158 ccagccgcac aactggcgc tgctgccgcc gggctcggtg atgaagacgt cgagcgga 539

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161 <210> SEQ ID NO: 6

162 <211> LENGTH: 695

163 <212> TYPE: DNA

164 <213> ORGANISM: Myxococcus xanthus

166 <400> SEQUENCE: 6

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168 ataacaggtc ctaccgatac ctgcctcggt tatttcgctt cctcggtttt cagggtggtt 60

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170 tcatgagcgt tatTTTgctc ttttaccatg ctgcatgctc ctaacaacaa cagaacaaag 120
172 actacgcctc cgTtcattat caactTTTgc atccgagatt cctcctTTtg cttattttatc 180
174 accatccttt cactattttc ctttttttag acatcaaaac taagattgag acatacgTtc 240
176 accttaccaa agaaaaaatc cgaacgagtt ggattcttaa taaagaacct caattcatcg 300
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182 tcaggccaaa cgcatacgatt acttcctTTt ttacatcttc atcggggTg cgctgatcaa 480
184 aatttaactt tttaaatgTg gaagataatt tattaacgTc tttgTctcg ttcaagtGct 540
186 catagacaat attatcatcc actTTggctt gtatctcatc ggtttcatTT tcatagccgG 600
188 cttcataatc attattaagc ccTTtTgaag gactactTTt taaattcaaa ttttgcaaaa 660
190 agttaaaaaa gatggtggtt ttcacatttt ggatt 695

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193 <210> SEQ ID NO: 7

194 <211> LENGTH: 666

195 <212> TYPE: DNA

196 <213> ORGANISM: Myxococcus xanthus

198 <400> SEQUENCE: 7

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202 ccagccggtg ctccaccttg gttcatcca gcacctTgtg gacgatgtcc gggacggtca 120
204 tctcctggtg gatgcggctc ttgcggcggt ggcgagcgt ccacagccgc ggcaccacgg 180
206 tggcgcggtg gcggcggcgc tccgggccat tgccttcac ccaccgtgac atgcgcgaca 240
208 cgatgccgtg gaagaagcgc gcggtgccgt ctccgagcat gacggtgagc cgcgcgtcct 300
210 ggccagcag cgccttctca tccacgtcca cgtccggccg ggcgccagt gcgacctcca 360
212 ccgctaggg ctgggacagc gtctcctcgg cttcaaagcc aaggacggcc agctctccgg 420
214 cggTgaagg ccctgccttg aactcgaact cagcctggtt ggctttcaag gcggcgTtcg 480
216 cgatcatcca cagTcccca gcgcggggcc tcgtccatgg gattgggccc gattgTggtg 540
218 cggcagcatg ccacgaattg gcgtaccagg ggggcctgac acgaaatttt cattgcggac 600
220 gtgcgctggc actggagcga cccattcca ggtcggaact cggTgtagag tggaaaaggG 660
222 gggtg 666

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225 <210> SEQ ID NO: 8

226 <211> LENGTH: 704

227 <212> TYPE: DNA

228 <213> ORGANISM: Myxococcus xanthus

230 <400> SEQUENCE: 8

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234 tatgctgcaa atgctgatga tgacggctat gcacttaccg gcccgcatTA gcgctgatga 120
236 tattcgaaac gaaaaaataa atgtgttaaa agcgcttcgt ccgcttgtaa aagaagatat 180
238 ggatctagac gttgttcgG gtcaatatga ggctggaaaa ataaacgggg cttcagtgcc 240
240 gagctacata aatgagcccG gtgtatcacc atcttctcag acggacacgt ttttagcagc 300
242 cagactatat atcgataatt cgctttggaa cggcgTtcct ttctacattc gtacagggaa 360
244 aagaatggcg gaaaaagcga cgcgaattgt tattgaattc aaagactcgc taaaagagtt 420
246 gtacttagac aaaggagaaa caacatctcc aaatctgttg atcattgaaa ttaaccgcga 480
248 cgaaaaatatt acgctgcagt taaacagcaa aaatccattt aatcatggTc atattgagcc 540
250 tgtacaaatt aatttttcag gtcagcaaga aggagcaccg gaagcatatg aacgccttat 600
252 tgcagatgca tgcgccggag attctacatt ttttgctcat tggaaaagaag tagagctagc 660
254 ttgggaatgg gttcagccgc ttcttgaagc atttcaggaa aata 704

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257 <210> SEQ ID NO: 9

258 <211> LENGTH: 638

259 <212> TYPE: DNA

260 <213> ORGANISM: Myxococcus xanthus

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262 <400> SEQUENCE: 9

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268 gtatcaacgt cttcttggtc aatagttggt ccgagtaa attttacttc ttcaatcaac 180
270 accttcgcat ctagtacgta gtgattttca ttaattttgt gtacgtccgg tatttcatca 240
272 tcatcaaaat catcacgaat ttctccaaca atttcttcta aaatgtcttc aaccgttaca 300
274 agccccgttg ttccctccata ctctctattt aagatggcca tgtgaattct gtccctttga 360
276 attttaagca ataagtcgta aatggcgatg gaatcaatga cttgaatgat gggtttcata 420
278 tacgttttga cgggacgtgg tttgatatca tcttctttta tgtaatccgc taatatattct 480
280 ttaatatata ctaatcccac cacttgatct ttgtttccat ctataactac tggatagcga 540
282 gtatattgct ctactctagc catttttaag aaatcttcta tcgtttcatc tgctgatacg 600
284 ctaacaattt ctgtacgagg caccatgatt tcttttagc 638

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287 <210> SEQ ID NO: 10

288 <211> LENGTH: 708

289 <212> TYPE: DNA

290 <213> ORGANISM: Myxococcus xanthus

292 <400> SEQUENCE: 10

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296 tcctgcgaaa aaaagtgatg tagttatgtc ttaatctctt tgaattcacc gccgggtttga 120
298 gcttttttta tgagtttctt gggaaacact gatagaataa ggaatgta ataatgttaa 180
300 cactcttata aaggtaat ttttagggaa aggaattttc aagagatgat taaattat t 240
302 gtaagcgact tagatggaac tcttttacac gaagaaaaat acgtagaaca gcataatgca 300
304 gacgcactta gtgaacttca gcgccaagga gtagaggttt gtcttgcttc tggacgaatg 360
306 gatacgga aa ttctaaagat ttctactgat attaataata catttcatcg cattagccaa 420
308 aacggaggat ttgtgtggac caaagaaaat caagaacttc atggaaaagt gtttgaagat 480
310 gatttagcgg ttcaacttta taaaaaaacg atagatccta accgtattac gcttgctgtg 540
312 tcaaacgaca cgaattatgt agagcagcga aatgaaatta ttgaagcaat tgaaactcac 600
314 atgtttttcc ctatcgaaga acaaattgaa atgacagatt catttggtca cgctctttct 660
316 ccacttaaaa tcacggttct tggagatcat gatgaaatgg tagctctg 708

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319 <210> SEQ ID NO: 11

320 <211> LENGTH: 762

321 <212> TYPE: DNA

322 <213> ORGANISM: Myxococcus xanthus

324 <400> SEQUENCE: 11

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328 tccgtatcat caattgtcgt gccaaagcagc tcgttaaagct cacttactaa taattttcca 120
330 tctacaatat aatgatcggg tttgactttc tgaattaatg gaagttcatc cgcatacaat 180
332 tcatcacgaa ttccaccgac aatttcttct aaaatatcct ctactgttac aatccctgct 240
334 gttccaccgt attcatcaat taaaatagcc atatggatgc gttcacgctg catcttaagc 300
336 aataaatcat gaataggaat cgattcaatt acttcaataa caggacggat atactgtttt 360
338 aaatctat tttccttgct gttgttcatt acaatctcgg ttaaaatttc tttcatattg 420
340 accattccaa taatatggtc tttatctcca tcgatgaccg gatagcgggt aaaccgttct 480
342 tcttgacca tctcaaggat gtattcgacc gtatcttctt ggtcaattga aacgacttcc 540
344 gtacgcggca ccataatctc cttggcaacg cgatcatcaa agtcaaaaaat ttactttaca 600
346 tatttaaaact ccgattgatt gatttcaccg cttttatagc tttctgataa caagatgcga 660
348 agctcttctt cactgtgtgc aagctcattt tctgaagcag gcttttagacc aaataaccct 720
350 gttattaaac gagaagaact gttttataac caaatgaaag ga 762

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353 <210> SEQ ID NO: 12

354 <211> LENGTH: 1164

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355 <212> TYPE: DNA
356 <213> ORGANISM: Myxococcus xanthus
358 <400> SEQUENCE: 12
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362 caagatatcg atttgtatca gcatcttcat tttcatgctt taattctaga tgaggctcag    120
364 agtattaaaa atcatacaac gaagacagca gtagctgtta ggactatttc agctaaaaaa    180
366 cgttttgccg tttagcggtag gcctattgaa aactcaactg atgagctttg gtcaattttc    240
368 cagaccattc ttctcggtct atttccaggg cttcgccagt ttaaaaaacat gtcacgcggag    300
370 caggtcagcc gaattgtaag accattttta ctgcgacgag taaaaaagga tgtgttaaaa    360
372 gaactgcctg ataaaattga aaccactcat ttatctgagc tgactaaaga acaaaaagag    420
374 ttgtatgtag gctattttaga gcagttaaaa tcatctttag ccggtgaaga ttttaataaa    480
376 aaccgaatga agatcttggc gggattaaca agacttcgcc agatttgctg tcatccgtcc    540
378 ctattcgttg aaaattacga aggggattca agcaaattag agcagctgct ggagattaca    600
380 agaaatgcgg ttgccaatgg aaaaacgctt ttaatctttt ctcagtttac aagcatgctt    660
382 catattattc gagaagagct tcaaaaagaa aatctctcgt acttttatit agacggtcaa    720
384 acgccatcaa aagaacgagt ggaaatggcg gatcggttta ataatggaga acaagacatt    780
386 ttcttaattt cattaaaagc cggaggcagc ggtttaaatt taacgggagc cgatacgggt    840
388 attttatatg acttatgggt gaaccccgcg attgaagaac aagcggcagg ccgtgcacac    900
390 cgcattggac aaaaaaatgt ggtgcaggtc atcaagctta tttctcaagg aaccatcgaa    960
392 gaaaaaattt acgccttgca gcaaaaagaa aaagaactca ttgaacaggt tattcagccg    1020
394 ggagaaacaa tgctttctag tttagacaga gaagagctcc gagaactgct tagtatgtag    1080
396 caaaggatgt gtgaggaatg aaaaaatggg cgtttatatc aaattttgat ggaacgattt    1140
398 caaaaaaaga attttactgg attg                                     1164
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402 <211> LENGTH: 579
403 <212> TYPE: DNA
404 <213> ORGANISM: Myxococcus xanthus
406 <400> SEQUENCE: 13
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410 gatctgcggc ttcactctgct cggagggtgga accctcgggc agctggccag cggcaccgtc    120
412 gtagacttcc ttgatgcgct cctcgggtggg cgcggggacc ttgtcgtcga tctccgcctt    180
414 cagatacgcc tcttgggaga ggccgcgctt cttggcctct gcatccacga gcttctccgt    240
416 caccatgccg tccaggccac gcttcaggag ctgcgacttc tgcttctcca ggttggccag    300
418 cggctcctgg aggcgctcgc tgagctcctt gtaggtgatc ttctgcccgt cgccgaacgt    360
420 cgcgacgaca gtgtcgggcg cgggctcacc cgacgctgc tgccgcgcgg gagcgggtggc    420
422 cggcgccctt tcttgttac agccggcggt gaaggaggcc gccaggagcg ccgcgaggat    480
424 gacgcgggtg ggacggttga gcatatcccg ccaacttagc cgagccttac cggacctgca    540
426 agttaatgac gtcaggcgac aagcggctcg aagtcacgc                                     579
429 <210> SEQ ID NO: 14
430 <211> LENGTH: 603
431 <212> TYPE: DNA
432 <213> ORGANISM: Myxococcus xanthus
434 <220> FEATURE:
435 <221> NAME/KEY: unsure
436 <222> LOCATION: (1)..(603)
437 <223> OTHER INFORMATION: unsure at all n locations
439 <400> SEQUENCE: 14
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443 ctcgacgcgg cggcgcttgc gcatggagtc cgcggcgatg ttgccagcg gcgagtcacc    120

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

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Input Set : F:\Pa_00359.rpt

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L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:459 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:2213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:68
L:2666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79
L:3179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92
L:3706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104
L:4113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114
L:4926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:133
L:5221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:138
L:5462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:143
L:7583 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184
L:7826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189
L:8659 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204
L:8661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204
L:8904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208
L:9057 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:211
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L:11406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:252
L:12899 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:278
L:13408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:286
L:13855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:293
L:13872 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294
L:13918 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:294
L:13995 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:295
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L:14169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:297
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L:14222 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:298
L:15143 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:312
L:15728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:321
L:16155 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:328
L:16778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:338
L:16845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:339
L:17046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:342
L:17048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:342
L:17911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:355
L:18316 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:361
L:20945 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:400
L:24110 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:440
L:24451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:444
L:24910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:449
L:24967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:450
L:25160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:452
L:25487 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:456

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/902,540

DATE: 08/02/2001

TIME: 09:59:07

Input Set : F:\Pa_00359.rpt

Output Set: N:\CRF3\08022001\I902540.raw

L:26054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:463
L:27385 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:476
L:29220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:493
L:32115 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:519